

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L4	225	(289/14,15).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/03/31 15:34
L5	523	(289/17).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/03/31 15:35
L6	348	(289/17).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/03/31 15:44
L7	3534	"139".clas. and groove	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/03/31 15:45
L8	8	"139".clas. and groove with string	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/03/31 15:48
L9	74	"139".clas. and grooves! with thread	US-PGPUB; USPAT; DERWENT	OR	ON	2005/03/31 15:49

	Document ID	Kind	Code	Source	Issue Date	Pages	Image ID
1	US 3561496 A			USPAT	19710209	6	US 3561
2	US 3590879 A			USPAT	19710706	7	US 3590
3	US 3596685 A			USPAT	19710803	5	US 3596
4	US 3620260 A			USPAT	19711116	5	US 3620
5	US 3662785 A			USPAT	19720516	4	US 3662
6	US 3672590 A			USPAT	19720627	10	US 3672
7	US 3706328 A			USPAT	19721219	6	US 3706
8	US 3724041 A			USPAT	19730403	6	US 3724
9	US 3750714 A			USPAT	19730807	13	US 3750
10	US 3791417 A			USPAT	19740212	9	US 3791
11	US 3794083 A			USPAT	19740226	5	US 3794
12	US 3831875 A			USPAT	19740827	10	US 3831
13	US 3848642 A			USPAT	19741119	8	US 3848
14	US 3851679 A			USPAT	19741203	9	US 3851
15	US 3851676 A			USPAT	19741203	5	US 3851
16	US 3862648 A			USPAT	19750128	8	US 3862
17	US 3900049 A			USPAT	19750819	8	US 3900
18	US 3902535 A			USPAT	19750902	11	US 3902
19	US 3926225 A			USPAT	19751216	7	US 3926
20	US 3926224 A			USPAT	19751216	6	US 3926
21	US 3929169 A			USPAT	19751230	6	US 3929
22	US 3946767 A			USPAT	19760330	7	US 3946
23	US 3957090 A			USPAT	19760518	4	US 3957
24	US 3996970 A			USPAT	19761214	5	US 3996
25	US 4002190 A			USPAT	19770111	6	US 4002
26	US 4058145 A			USPAT	19771115	8	US 4058
27	US 4072175 A			USPAT	19780207	14	US 4072
28	US 4074726 A			USPAT	19780221	12	US 4074
29	US 4077436 A			USPAT	19780307	5	US 4077
30	US 4103715 A			USPAT	19780801	7	US 4103
31	US 4140157 A			USPAT	19790220	5	US 4140
32	US 4160467 A			USPAT	19790710	9	US 4160
33	US 4181158 A			USPAT	19800101	5	US 4181
34	US 4290458 A			USPAT	19810922	11	US 4290
35	US 4291729 A			USPAT	19810929	10	US 4291
36	US 4313472 A			USPAT	19820202	9	US 4313
37	US 4313245 A			USPAT	19820202	5	US 4313
38	US 4330907 A			USPAT	19820525	7	US 4330
39	US 4401138 A			USPAT	19830830	6	US 4401
40	US 4410015 A			USPAT	19831018	33	US 4410
41	US 4423894 A			USPAT	19840103	10	US 4423
42	US 4462432 A			USPAT	19840731	7	US 4462
43	US 4554954 A			USPAT	19851126	14	US 4554

US-PAT-NO: 4160467

DOCUMENT-IDENTIFIER: US 4160467 A

TITLE: Hand loom having rotary heddle assembly

----- KWIC -----

## Detailed Description Text - DCTX (2):

With reference to the drawings, FIG. 1 depicts a hand loom 20 constructed in accordance with the present invention. The loom 20 includes a rectangular front side frame 22, a geometrically identical back side frame 24, and four transverse members 26, 28, 30 and 32 which interconnect the corners of the frames 22 and 24. A single thread 34 is coiled helically around the loom between, and in longitudinal alignment with, the front side 22 and the back side 24 to provide warp for the loom 20. In FIG. 1 only four coils of the warp 34 are shown, whereas in FIG. 2, the depth of the loom 20 is covered by coils of the warp thread 34. The relative positional alignment of each coil of the thread 34 is established and maintained by positioning members 36 present in the upper transverse members 26 and 28. A small section of woven fabric 35 is also depicted in FIG. 1. As the hand weaving progresses, the warp is periodically rotated as a belt counterclockwise around the frame of the loom 20.

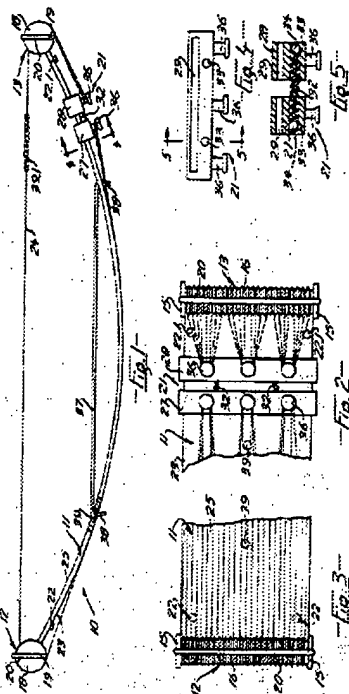
Current US Class - CLAS (1):

139

PATENTED APR 3 1974

3,724,041

SHEET 1 OF 2

Sidney B. Cleaverley,  
InventorBy *[Signature]*  
Eric G. Tracy,  
Agent

US-PAT-NO: 3724041

DOCUMENT-IDENTIFIER: US 3724041 A

TITLE: PORTABLE LOOM

KWIC

## Detailed Description Text - DETX (3):

FIGS. 1 through 5 show one embodiment of a loom of the invention, generally 10. As seen in FIGS. 1, 2, and 3, the loom has a base 11 which is formed of a normally straight flat strip of springy material which can be made of a metal for example, spring steel or a suitable thermoplastic, for example nylon, thickness of the base being such that it can be bent longitudinally into a bow as shown in FIG. 1. Warp thread guides 12 and 13 are located at opposite ends of the base. The warp thread guides are cylindrical having circular end flanges, severally 15, and spaced circumferentially extending grooves 16, center-to-center spacing of the grooves corresponding to desired spacing of warp threads.

## Detailed Description Text - DETX (12):

When it is desired to collapse the loom the spring clips 20 are fitted to the flanges 15 and pressed down against the warp. The warp is then removed from the projections on one of the pieces 27 or 28 to permit the base to return to a straightened condition. The clips, which frictionally engage the warp threads, maintain the thread in the guide grooves and also maintain the warp thread under slight tension. The loom, in its straightened condition can fit easily in a handbag of suitable size or stored in a drawer or the like.

Current US Class - CLAS (1):

119